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Dated: July 21, 2006

Signature: Jeanne M. Brashear
(Jeanne M. Brashear)

Docket No.: 29729/40794
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Fanrong Kong et al.

Application No.: 10/552,394

Confirmation No.:

Filed: October 7, 2005

Art Unit: Not Yet Assigned

For: Identification of Streptococcus Pneumoniae
Serotypes

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Copies of documents C1-C208 are enclosed herewith.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art."

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

Accordingly, no fee is believed to be due. However, the director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 29729/40794. A duplicate copy of this paper is enclosed.

Dated: July 21, 2006

Respectfully submitted,

By Jeanne M. Brashear
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Substitute for form 1449A/B/PTO				Complete if Known	
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				First Named Inventor	Fanrong Kong
				Art Unit	Not Yet Assigned
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A1		5,837,832	11-17-1998	Chee et al.	
A2		6,248,521	06-19-2001	Van Ness et al.	
FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	C1	ALTSCHUL et al., "Gapped BLAST and PSI-BLAST: A New Generation of Protein Database Search Programs," <i>Nucleic Acids Research</i> , 25:17 (1997).			
	C2	ARAI et al., "Use of Antiserum-Coated Latex Particles for Stereotyping <i>Streptococcus Pneumoniae</i> ," <i>Microbiol. Immunol.</i> , 45:159-162 (2001).			
	C3	ARRECUBIETA et al., "Type 3-specific Synthase of <i>Streptococcus Pneumoniae</i> (Cap3B) Directs Type 3 Polysaccharide Biosynthesis in <i>Escherichia Coli</i> and in Pneumococcal Strains of Different Stereotypes," <i>J. Exp. Med.</i> , 184: 449-455 (1996).			
	C4	BARKER et al., "Genetic Relatedness among Nontypeable Pneumococci Implicated in Sporadic Cases of Conjunctivitis," <i>J. Clin. Microbiol.</i> , 37:4039-4041 (1999).			
	C5	BATEMAN et al., "The Pfam Protein Families Database," <i>Nucleic Acids Research</i> , 30:276-280 (2002).			
	C6	CHEN et al., "Secreted Protein Prediction System Combining CJ-SPHMM, TMHMM, and PSORT," <i>DOI</i> , 14:859-865 (2003).			
	C7	COFFEY et al., "Recombinational Exchanges at the Capsular Polysaccharide Biosynthetic Locus Lead to Frequent Serotype Changes among Natural Isolates of <i>Streptococcus Pneumoniae</i> ," <i>Mol Microbiol.</i> , 27:73-83 (1998).			
	C8	COLMAN et al., "Pneumococci Causing Invasive Disease in Britain 1982-1990," <i>J. Med. Microbiol.</i> , 47:17-27 (1998).			
	C9	DUNNE et al., "Comparison of Results Generated by Serotyping, Pulse-Field Restriction Analysis, Ribotyping, and Repetitive-Sequence PCR Used to Characterize Penicillin-Resistant Pneumococci from the United States," <i>J. Clin. Microbiol.</i> , 39:1791-1795 (2001).			
	C10	Genbank Accession No. AF026471, <i>Streptococcus pneumoniae</i> DexB (dexB) gene, partial cds; putative transposase gene, complete cds; type 2 capsular polysaccharide biosynthesis operon, complete sequence; and AliA (aliA) gene, partial cds, 26-Aug-99.			
	C11	Genbank Accession No. AF030367, <i>Streptococcus pneumoniae</i> strain NCTC11906 alpha, 1-6-glucosidase (dexB) gene, partial cds; maturase-related protein, putative regulatory protein (cpsA), CpsB (cpsB), and putative chain length regulator (cpsC) genes, complete cds; and			
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		CpsD (cpsD) gene, partial cds, 16-Jul-98.		
	C12	Genbank Accession No. AF030368, Streptococcus Pneumoniae strain SP-496 alpha, 1-6-glucosidase (dexB) gene, partial cds; putative regulatory protein (cpsA), CpsB (cpsB), and putative chain length regulator (cpsC) genes, complete cds; and CpsD (cpsD) gene, partial cds, 16-Jul-1998.		
	C13	Genbank Accession No. AF030369, Streptococcus pneumoniae strain SP-VA92 alpha, 1-6-glucosidase (dexB) gene, partial cds; putative regulatory protein (cpsA) and CpsB (cpsB) genes, complete cds; and putative chain length terminator (cpsC) gene, partial cds, 16-Jul-1998.		
	C14	Genbank Accession No. AF030370, Streptococcus pneumoniae strain SP-GA71 alpha, 1-6-glucosidase (dexB) gene, partial cds; putative regulatory protein (cpsA), CpsB (cpsB), and putative chain length regulator (cpsC) genes, complete cds; and CpsD (cpsD) gene, partial cds, 16-Jul-1998.		
	C15	Genbank Accession No. AF030371, Streptococcus pneumoniae strain PO-329 alpha, 1-6-glucosidase (dexB) gene, partial cds; putative regulatory protein (cpsA), CpsB (cpsB), and putative chain length regulator (cpsC) genes, complete cds; and CpsD (cpsD) gene, partial cds, 16-Jul-98.		
	C16	Genbank Accession No. AF030372, Streptococcus pneumoniae strain SP-VA96 alpha, 1-6-glucosidase (dexB) gene, partial cds; putative regulatory protein (cpsA) and CpsB (cpsB) genes, complete cds; and putative chain length regulator (cpsC) gene, partial cds, 16-Jul-1998.		
	C17	Genbank Accession No. AF030373, Streptococcus pneumoniae strain SP-264 alpha, 1-6-glucosidase (dexB) gene, complete cds; capsular polysaccharide biosynthetic locus, complete sequence; and oligopeptide binding protein (aliA) gene, complete cds, 16-Jul-98.		
	C18	Genbank Accession No. AF030374, Streptococcus pneumoniae strain UK-577 alpha, 1-6-glucosidase (dexB) gene, partial cds; putative regulatory protein (cpsA) and CpsB (cpsB) genes, complete cds; and putative chain length regulator (cpsC) gene, partial cds, 16-Jul-98.		
	C19	Genbank Accession No. AF057294, Streptococcus pneumoniae 23F capsular polysaccharide locus, complete sequence, 31-Oct-1998.		
	C20	Genbank Accession No. AF094575, Streptococcus pneumoniae serotype 19A DexB (dexB) gene, partial sequence; capsular polysaccharide biosynthesis operon, complete sequence; and oligopeptide permease AliA (aliA) gene, partial cds, 09-Sep-1999.		
	C21	Genbank Accession No. AF105113, Streptococcus pneumoniae type 19A putative oligosaccharide repeat unit transporter (cps19AJ) gene, partial cds; UDP-N-acetyl glucosamine-2-epimerase (cps19AK), glucose-1-phosphate thymidylyl transferase (cps19AL), dTDP-4-keto-6-deoxyglucose-3, 5-epimerase (cps19AM), dTDP-glucose-4, 6-dehydratase (cps19AN), and dTDP-L-rhamnose-synthase (cps19AO) genes, complete cds; and AliA (aliA) gene, partial cds, 09-Sep-1999.		
	C22	Genbank Accession No. AF105115, Streptococcus pneumoniae type 19C alpha, 1-6-glucosidase (dexB) gene, partial cds, insertion sequence IS1202, and Cps19CA (cps19CA) gene, partial cds, 09-Sep-1999.		
	C23	Genbank Accession No. AF106137, Streptococcus pneumoniae serotype 19B capsular polysaccharide B (cpsB) and capsular polysaccharide C (cpsC) genes, partial cds, 24-Jun-1999.		
	C24	Genbank Accession No. AF316639, Streptococcus pneumoniae serotype 4 capsular polysaccharide gene cluster, complete sequence, 19-Mar-2001.		
	C25	Genbank Accession No. AF316640, Streptococcus pneumoniae serotype 6B capsular polysaccharide gene cluster, complete sequence, 19-Mar-2001.		
	C26	Genbank Accession No. AF316642, Streptococcus pneumoniae serotype 18C capsular polysaccharide gene cluster, complete sequence, 16-Apr-2001.		
	C27	Genbank Accession No. AF402095, Streptococcus pneumoniae serotype 9V capsular		

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		polysaccharide synthesis gene locus, complete sequence, 18-Nov-2002.	
	C28	Genbank Accession No. AF508607, Influenza A virus (A/Chicken/Guangdong/11/97(H9N2)) segment 5 nucleoprotein (NP) gene, partial cds, 01-Feb-2004.	
	C29	Genbank Accession No. AF532633, Streptococcus pneumoniae strain 01S043 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C30	Genbank Accession No. AF532634, Streptococcus pneumoniae strain 00-222-0342 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C31	Genbank Accession No. AF532635, Streptococcus pneumoniae strain 01S146 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C32	Genbank Accession No. AF532636, Streptococcus pneumoniae strain MA008229 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C33	Genbank Accession No. AF532637, Streptococcus pneumoniae strain 00S036 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C34	Genbank Accession No. AF532638, Streptococcus pneumoniae strain NZSPN01/411 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C35	Genbank Accession No. AF532639, Streptococcus pneumoniae strain MA052150 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C36	Genbank Accession No. AF532640, Streptococcus pneumoniae strain 00S063 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C37	Genbank Accession No. AF532641, Streptococcus pneumoniae strain 01-072-0391 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C38	Genbank Accession No. AF532642, Streptococcus pneumoniae strain MA053782 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C39	Genbank Accession No. AF532643, Streptococcus pneumoniae strain 01S666 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C40	Genbank Accession No. AF532644, Streptococcus pneumoniae strain 105015 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C41	Genbank Accession No. AF532645, Streptococcus pneumoniae strain 99-284-1034 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C42	Genbank Accession No. AF532646, Streptococcus pneumoniae strain MA052002 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C43	Genbank Accession No. AF532647, Streptococcus pneumoniae strain MA052434 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C44	Genbank Accession No. AF532648, Streptococcus pneumoniae strain 00-315-3100 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C45	Genbank Accession No. AF532649, Streptococcus pneumoniae strain 00S154 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C46	Genbank Accession No. AF532650, Streptococcus pneumoniae strain 01-185-0511 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C47	Genbank Accession No. AF532651, Streptococcus pneumoniae strain 01S691 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C48	Genbank Accession No. AF532652, Streptococcus pneumoniae strain MA052979 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C49	Genbank Accession No. AF532653, Streptococcus pneumoniae strain 01S682 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C50	Genbank Accession No. AF532654, Streptococcus pneumoniae strain NZSPN01/166 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C51	Genbank Accession No. AF532655, Streptococcus pneumoniae strain MA061378 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C52	Genbank Accession No. AF532656, Streptococcus pneumoniae strain 00-237-0230 capsular	

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		polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C53	Genbank Accession No. AF532657, Streptococcus pneumoniae strain 00S033 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C54	Genbank Accession No. AF532658, Streptococcus pneumoniae strain 01S319 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C55	Genbank Accession No. AF532659, Streptococcus pneumoniae strain NZSPN00/353 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C56	Genbank Accession No. AF532660, Streptococcus pneumoniae strain MA053392 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C57	Genbank Accession No. AF532661, Streptococcus pneumoniae strain 00S042 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C58	Genbank Accession No. AF532662, Streptococcus pneumoniae strain MA050663 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C59	Genbank Accession No. AF532663, Streptococcus pneumoniae strain 00S006 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C60	Genbank Accession No. AF532664, Streptococcus pneumoniae strain MA056382 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C61	Genbank Accession No. AF532665, Streptococcus pneumoniae strain 00-235-3584 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C62	Genbank Accession No. AF532666, Streptococcus pneumoniae strain 00S001 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C63	Genbank Accession No. AF532667, Streptococcus pneumoniae strain 01-005-0764 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C64	Genbank Accession No. AF532668, Streptococcus pneumoniae strain 01-009-0101 capsular polysaccharide synthesis gene locus partial sequence, 26-Nov-2003.	
	C65	Genbank Accession No. AF532669, Streptococcus pneumoniae strain 00S259 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C66	Genbank Accession No. AF532670, Streptococcus pneumoniae strain 01S305 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C67	Genbank Accession No. AF532671, Streptococcus pneumoniae strain MA061938 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C68	Genbank Accession No. AF532672, Streptococcus pneumoniae strain 00S300 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C69	Genbank Accession No. AF532673, Streptococcus pneumoniae strain 00S246 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C70	Genbank Accession No. AF532674, Streptococcus pneumoniae strain MA050408 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C71	Genbank Accession No. AF532675, Streptococcus pneumoniae strain MA052433 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C72	Genbank Accession No. AF532676, Streptococcus pneumoniae strain 99-091-2295 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C73	Genbank Accession No. AF532677, Streptococcus pneumoniae strain 00S009 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C74	Genbank Accession No. AF532678, Streptococcus pneumoniae strain 99-325-0373 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C75	Genbank Accession No. AF532679, Streptococcus pneumoniae strain NZSPN00/454 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C76	Genbank Accession No. AF532681, Streptococcus pneumoniae strain 00-093-1315 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
	C77	Genbank Accession No. AF532682, Streptococcus pneumoniae strain 01S143 capsular	

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C78	Genbank Accession No. AF532683, Streptococcus pneumoniae strain NZSPN01/428 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C79	Genbank Accession No. AF532684, Streptococcus pneumoniae strain MA007753 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C80	Genbank Accession No. AF532685, Streptococcus pneumoniae strain MA063087 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C81	Genbank Accession No. AF532686, Streptococcus pneumoniae strain 01S333 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C82	Genbank Accession No. AF532687, Streptococcus pneumoniae strain 00S168 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C83	Genbank Accession No. AF532688, Streptococcus pneumoniae strain NZSPN00/410 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C84	Genbank Accession No. AF532689, Streptococcus pneumoniae strain MA063073 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C85	Genbank Accession No. AF532690, Streptococcus pneumoniae strain MA054490 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C86	Genbank Accession No. AF532691, Streptococcus pneumoniae strain 01S358 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C87	Genbank Accession No. AF532692, Streptococcus pneumoniae strain MA051617 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C88	Genbank Accession No. AF532693, Streptococcus pneumoniae strain 01S753 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C89	Genbank Accession No. AF532694, Streptococcus pneumoniae strain MA061296 capsular polysaccharide synthesis gene locus, partial sequence, 19-Dec-2003.
C90	Genbank Accession No. AF532695, Streptococcus pneumoniae strain MA051950 capsular polysaccharide synthesis gene locus, partial sequence, 19-Dec-2003.
C91	Genbank Accession No. AF532696, Streptococcus pneumoniae strain 00-118-2067 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C92	Genbank Accession No. AF532697, Streptococcus pneumoniae strain 00S023 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C93	Genbank Accession No. AF532698, Streptococcus pneumoniae strain 01-122-0226 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C94	Genbank Accession No. AF532699, Streptococcus pneumoniae strain 01-192-2471 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C95	Genbank Accession No. AF532700, Streptococcus pneumoniae strain 00-251-3185 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C96	Genbank Accession No. AF532701, Streptococcus pneumoniae strain NZSPN01/329 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C97	Genbank Accession No. AF532702, Streptococcus pneumoniae strain MA055100 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C98	Genbank Accession No. AF532703, Streptococcus pneumoniae strain 00-201-1422 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C99	Genbank Accession No. AF532704, Streptococcus pneumoniae strain 00-211-1669 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C100	Genbank Accession No. AF532705, Streptococcus pneumoniae strain 00S002 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C101	Genbank Accession No. AF532706, Streptococcus pneumoniae strain 01S020 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.
C102	Genbank Accession No. AF532707, Streptococcus pneumoniae strain 00S124 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.

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	polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C103	Genbank Accession No. AF532708, Streptococcus pneumoniae strain 00S067 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C104	Genbank Accession No. AF532709, Streptococcus pneumoniae strain 00S059 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C105	Genbank Accession No. AF532710, Streptococcus pneumoniae strain 00S016 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C106	Genbank Accession No. AF532711, Streptococcus pneumoniae strain MA059287 capsular polysaccharide synthesis gene locus, partial sequence, 19-Dec-2003.	
C107	Genbank Accession No. AF532712, Streptococcus pneumoniae strain MA050947 capsular polysaccharide synthesis gene locus, partial sequence, 28-Nov-2003.	
C108	Genbank Accession No. AF532713, Streptococcus pneumoniae strain MA063207 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C109	Genbank Accession No. AF532714, Streptococcus pneumoniae strain NZSPN00/50 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C110	Genbank Accession No. AF532715, Streptococcus pneumoniae strain MA063745 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C111	Genbank Accession No. AJ006986, Streptococcus pneumoniae type 33F DNA, capsular gene cluster, 15-Apr-2005.	
C112	Genbank Accession No. AJ131984, Streptococcus pneumoniae cap37 locus, 15-Apr-2005.	
C113	Genbank Accession No. AJ239004, Streptococcus pneumoniae type 8 capsular gene cluster, 15-Apr-2005.	
C114	Genbank Accession No. AY078347, Streptococcus pneumoniae isolate PN93/Y008 serotype 6A capsular polysaccharide locus, partial sequence, 26-Apr-2002.	
C115	Genbank Accession No. AY330713, Streptococcus pneumoniae strain NZSPN01/276 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C116	Genbank Accession No. AY330714, Streptococcus pneumoniae strain 98S338 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C117	Genbank Accession No. AY330715, Streptococcus pneumoniae strain 98S322 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C118	Genbank Accession No. AY330716, Streptococcus pneumoniae strain 02S159 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C119	Genbank Accession No. AY330717, Streptococcus pneumoniae strain 01S139 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C120	Genbank Accession No. AY330718, Streptococcus pneumoniae strain 98S457 capsular polysaccharide synthesis gene locus, partial sequence, 26-Nov-2003.	
C121	Genbank Accession No. AY508586, Streptococcus pneumoniae strain 31565 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
C122	Genbank Accession No. AY508587, Streptococcus pneumoniae strain qap1E capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005	
C123	Genbank Accession No. AY508588, Streptococcus pneumoniae strain 31222 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
C124	Genbank Accession No. AY508589, Streptococcus pneumoniae strain 31578 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
C125	Genbank Accession No. AY508590, Streptococcus pneumoniae strain 31224 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
C126	Genbank Accession No. AY508591, Streptococcus pneumoniae strain 31591 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
C127	Genbank Accession No. AY508592, Streptococcus pneumoniae strain v2 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	

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C128	Genbank Accession No. AY508593, Streptococcus pneumoniae strain v3 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C129	Genbank Accession No. AY508594, Streptococcus pneumoniae strain 31227 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C130	Genbank Accession No. AY508595, Streptococcus pneumoniae strain 31622 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C131	Genbank Accession No. AY508596, Streptococcus pneumoniae strain 31659 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C132	Genbank Accession No. AY508597, Streptococcus pneumoniae strain 31233 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C133	Genbank Accession No. AY508598, Streptococcus pneumoniae strain 31234 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C134	Genbank Accession No. AY508599, Streptococcus pneumoniae strain 31240 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C135	Genbank Accession No. AY508600, Streptococcus pneumoniae strain 31241 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C136	Genbank Accession No. AY508601, Streptococcus pneumoniae strain 31720 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C137	Genbank Accession No. AY508602, Streptococcus pneumoniae strain 31735 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C138	Genbank Accession No. AY508603, Streptococcus pneumoniae strain 31250 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C139	Genbank Accession No. AY508604, Streptococcus pneumoniae strain 31251 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C140	Genbank Accession No. AY508605, Streptococcus pneumoniae strain 31249 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C141	Genbank Accession No. AY508606, Streptococcus pneumoniae strain 31789 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C142	Genbank Accession No. AY508608, Streptococcus pneumoniae strain 31253 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C143	Genbank Accession No. AY508609, Streptococcus pneumoniae strain 31255 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C144	Genbank Accession No. AY508610, Streptococcus pneumoniae strain 31254 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C145	Genbank Accession No. AY508612, Streptococcus pneumoniae strain 31259 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C146	Genbank Accession No. AY508613, Streptococcus pneumoniae strain 31842 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C147	Genbank Accession No. AY508614, Streptococcus pneumoniae strain 31258 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C148	Genbank Accession No. AY508615, Streptococcus pneumoniae strain 31262 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C149	Genbank Accession No. AY508616, Streptococcus pneumoniae strain 31263 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C150	Genbank Accession No. AY508617, Streptococcus pneumoniae strain 31894 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C151	Genbank Accession No. AY508618, Streptococcus pneumoniae strain 31268 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.
C152	Genbank Accession No. AY508619, Streptococcus pneumoniae strain 31269 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.

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	C153	Genbank Accession No. AY508620, Streptococcus pneumoniae strain 31272 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C154	Genbank Accession No. AY508621, Streptococcus pneumoniae strain 31920 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C155	Genbank Accession No. AY508622, Streptococcus pneumoniae strain 31273 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C156	Genbank Accession No. AY508623, Streptococcus pneumoniae strain 31275 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C157	Genbank Accession No. AY508624, Streptococcus pneumoniae strain 31274 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C158	Genbank Accession No. AY508625, Streptococcus pneumoniae strain 31276 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C159	Genbank Accession No. AY508626, Streptococcus pneumoniae strain 31277 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C160	Genbank Accession No. AY508627, Streptococcus pneumoniae strain 31278 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C161	Genbank Accession No. AY508628, Streptococcus pneumoniae strain 31279 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C162	Genbank Accession No. AY508629, Streptococcus pneumoniae strain 31280 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C163	Genbank Accession No. AY508630, Streptococcus pneumoniae strain 31282 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C164	Genbank Accession No. AY508631, Streptococcus pneumoniae strain 31281 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C165	Genbank Accession No. AY508632, Streptococcus pneumoniae strain 31283 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C166	Genbank Accession No. AY508633, Streptococcus pneumoniae strain 31965 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C167	Genbank Accession No. AY508634, Streptococcus pneumoniae strain qap1C capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C168	Genbank Accession No. AY508635, Streptococcus pneumoniae strain 31209 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C169	Genbank Accession No. AY508636, Streptococcus pneumoniae strain 31210 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C170	Genbank Accession No. AY508637, Streptococcus pneumoniae strain 31213 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C171	Genbank Accession No. AY508638, Streptococcus pneumoniae strain 31214 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C172	Genbank Accession No. AY508639, Streptococcus pneumoniae strain 31216 capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C173	Genbank Accession No. AY508640, Streptococcus pneumoniae strain qap2C capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C174	Genbank Accession No. AY508641, Streptococcus pneumoniae strain qap2E capsular polysaccharide synthesis gene locus, partial sequence, 17-Mar-2005.	
	C175	Genbank Accession No. AY532680, Dasyurus maculatus interphotoreceptor binding protein (IRBP) gene, exon 1 and partial cds, 08-Jan-2005.	
	C176	Genbank Accession No. NC_003028, Streptococcus pneumoniae TIGR4, complete genome, 02-Dec-2005.	
	C177	Genbank Accession No. U09239, Streptococcus pneumoniae type 19F capsular polysaccharide biosynthesis operon, (cps19fABCDEFGHIJKLMNO) genes, complete cds, and alaA gene, partial cds, 17-Mar-1997.	
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C178	Genbank Accession No. U15171, Streptococcus pneumoniae type 3 capsular polysaccharide biosynthesis cassette, UDP-glucose dehydrogenase (cps3D), type 3 synthase (cps3S), and glucose-1-phosphate uridylyltransferase (cps3U) genes, complete cds, 30-Mar-1995.	
C179	Genbank Accession No. U66845, Streptococcus pneumoniae cps3U gene, partial cds, permease-like protein A and tnpA pseudogenes, partial sequences, Cps3M (cps3M) gene, complete cds, 05-Mar-2001.	
C180	Genbank Accession No. U66846, Streptococcus pneumoniae cps3E and rpt pseudogenes, partial sequence, Cps3C (cps3C), Cps3P (cps3P) genes, partial cds, 02-Mar-2001.	
C181	Genbank Accession No. X85787, S. pneumoniae cps14 locus, 18-Apr-2005.	
C182	Genbank Accession No. Z47210, S. pneumoniae dexB, cap3A, cap3B and cap3C genes and orfs, 18-Apr-2005.	
C183	Genbank Accession No. Z83335, S. pneumoniae dexB, cap1[A,B,C,D,E,F,G,H,I,J,K] genes, dTDP-rhamnose biosynthesis genes and aliA gene, 18-Apr-2005.	
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C192	KUMAR et al., "MEGA: Molecular Evolutionary Genetics Analysis Software for Microcomputers," <i>CABIOS</i> , 10:189-191 (1994).	
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C194	LAWRENCE et al., "Evaluation of Serotype Prediction by cpsA-cpsB Gene Polymorphism in Streptococcus Pneumoniae," <i>J. Clin. Microbiol.</i> , 38:1319-1323 (2000).	
C195	LIPSITCH, "Interpreting Results from Trials of Pneumococcal Conjugate Vaccines: A Statistical Test for Detecting Vaccine-induced Increases in Carriage of Nonvaccine Serotypes," <i>J. Epidemiol.</i> , 154:85-92 (2001).	
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	C201	SKOV SORENSEN, "Typing of Pneumococci by Using 12 Pooled Antisera," <i>j. Clin. Microbe.</i> , 31:2097-2100 (1993).	
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